

09/013, 077
WEST Search History

DATE: Friday, November 15, 2002

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

L7	(CS3)near2(pilin or pilus)near2(protein\$ or subunit\$)	2	L7
L6	gtvtwah\$	0	L6
L5	gly-thr-val-thr	0	L5
L4	gly-thr-val-thr-trp\$	0	L4
L3	L2 and (CS3)	6	L3
L2	L1 and (enteropath\$ or enterotox\$)	89	L2
L1	reid	21444	L1

END OF SEARCH HISTORY

WEST**End of Result Set**

Generate Collection

Print

L7: Entry 2 of 2

File: USPT

May 23, 1995

DOCUMENT-IDENTIFIER: US 5417986 A

TITLE: Vaccines against diseases caused by enteropathogenic organisms using antigens encapsulated within biodegradable-biocompatible microspheres

Drawing Description Text (254):

The CFA/II microsphere vaccine (Lot74F2) is immunogenic giving high titer serum IgG antibody responses as early as 7 days following intra muscular injection in rabbits. This test will be used as potency test for future lots of the CFA/II microsphere vaccine. Slightly higher antibody titers were seen towards the CS3 pilus protein and this may reflect that CS3 accounts for 90% of the protein in the CFA/II and CS1 10% (36).

WEST

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L7: Entry 1 of 2

File: USPT

Oct 30, 2001

DOCUMENT-IDENTIFIER: US 6309669 B1

TITLE: Therapeutic treatment and prevention of infections with a bioactive materials encapsulated within a biodegradable-biocompatible polymeric matrix

Detailed Description Text (186):

117. An immunostimulating composition according to Item 113 wherein the immunogenic substance is the synthetic peptide representing the peptide fragment beginning with the amino acid residue 63 through 78 of Pilus Protein CS3, said residue having the amino acid sequence,
63(Ser-Lys-Asn-Gly-Thr-Val-Thr-Try-Ala-His-Glu-Thr-Asn-Asn-Ser-Ala).

Detailed Description Text (202):

133. A method according to Item 114 wherein the immunogenic substance is the synthetic peptide representing the peptide fragment beginning with the amino acid residue 63 through 78 of Pilus Protein CS3 said residue having the amino acid sequence
63(Ser-Lys-Asn-Gly-Thr-Val-Thr-Try-ala-His-Glu-thr-asn-Asn-Ser-Ala).

09/ 0,3,077

(FILE 'HOME' ENTERED AT 08:41:30 ON 15 NOV 2002)

FILE 'REGISTRY' ENTERED AT 08:41:39 ON 15 NOV 2002

L1 2 S SKNGTVTWAHETNNSA/SQSP
L2 2 S SKNGTVTWAHETNNSA/SQEP

FILE 'CAPLUS' ENTERED AT 08:42:44 ON 15 NOV 2002

L3 2 S L2
L4 2 S L1
L5 0 S L4 NOT L3

=>

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1998:527193 CAPLUS

DN 129:166193

TI Therapeutic treatment and prevention of infections with a bioactive material encapsulated within a biodegradable-biocompatible polymeric matrix

IN Setterstrom, Jean A.; Van Hamont, John E.; Reid, Robert H.; Jacob, Elliot; Jeyanthi, Ramasubbu; Boedeker, Edgar C.; McQueen, Charles E.; Tice, Thomas R.; Roberts, F. Donald; Friden, Phil

PA United States Dept. of the Army, USA; Van Hamont, John E.; et al.

SO PCT Int. Appl., 363 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 12

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9832427	A1	19980730	WO 1998-US1556	19980127
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 6309669	B1	20011030	US 1997-789734	19970127
	AU 9863175	A1	19980818	AU 1998-63175	19980127
PRAI	US 1997-789734	A	19970127		
	US 1984-590308	B1	19840316		
	US 1992-867301	A2	19920410		
	US 1995-446148	A2	19950522		
	US 1995-446149	B2	19950522		
	US 1996-590973	B2	19960124		
	WO 1998-US1556	W	19980127		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1996:43038 CAPLUS

DN 124:84900

TI Computer modeling for testing immunogenicity of peptides

IN Reid, Robert H.; Sadegh-Nasseri, Scheherazade; Wolff, Marcia; Nauss, Jeffrey L.

PA United States Dept. of the Army, USA

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9531997	A1	19951130	WO 1994-US5697	19940520
	W:	AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9472429	A1	19951218	AU 1994-72429	19940520
PRAI	WO 1994-US5697		19940520		

09/013, 077

(FILE 'HOME' ENTERED AT 13:38:48 ON 15 NOV 2002)

FILE 'CAPLUS' ENTERED AT 13:39:00 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:39:13 ON 15 NOV 2002

L1 54 S (NAUSS, J? OR NAUSS J?)/AU,IN
L2 4069 S (REID, R? OR REID R?)/AU,IN
L3 4968 S (WOLF, M? OR WOLF M?)/AU,IN
L4 99 S (SADEGH-NASSERI, S? OR SADEGH-NASSERI S?)/AU,IN
L5 9163 S L1 OR L2 OR L3 OR L4
L6 51 S L5 AND (PILUS OR PILI OR PILLUS OR PILLI)
L7 0 S L6 AND (62 OR 63 OR 64)
L8 21 S L5 AND (PILUS OR PILI OR PILLUS OR PILLI) (3A) (PROTEIN? OR SU
L9 16 DUP REM L8 (5 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 13:44:35 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:45:13 ON 15 NOV 2002

FILE 'STNGUIDE' ENTERED AT 13:45:45 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:47:18 ON 15 NOV 2002

FILE 'STNGUIDE' ENTERED AT 13:47:41 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:48:49 ON 15 NOV 2002

FILE 'STNGUIDE' ENTERED AT 13:49:33 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:51:05 ON 15 NOV 2002

FILE 'STNGUIDE' ENTERED AT 13:53:08 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 13:53:27 ON 15 NOV 2002

L10 31 S (PILI) (2A) (PROTEIN?) (5A) (SEQUENC?)
L11 17 DUP REM L10 (14 DUPLICATES REMOVED)
L12 0 S (PILI) (2A) (PROTEIN?) (5A) (63-78)
L13 8 S (PILI) (2A) (PROTEIN?) (5A) (PEPTIDE OR AMINO ACID?) (5A) (SEQUENC?)
L14 3 DUP REM L13 (5 DUPLICATES REMOVED)
L15 2453 S (ENTEROTOXIGEN?) (2A) (E. COLI)
L16 2565 S ETEC
L17 4395 S L15 OR L16
L18 353 S L17 AND (CS3 OR PILUS)
L19 73 S L18 AND SEQUENCE?
L20 76 S L18 AND SEQUENC?
L21 39 DUP REM L20 (37 DUPLICATES REMOVED)
L22 132 S (CS3)/TI
L23 6 S L21 AND L22
L24 31 S (CS3) (3A) (SEQUENC?)
L25 282 S L17 AND 24
L26 2 S L17 AND L24

FILE 'STNGUIDE' ENTERED AT 14:07:38 ON 15 NOV 2002

FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 14:08:08 ON 15

NOV 2002

L27 FILE 'REGISTRY' ENTERED AT 14:09:06 ON 15 NOV 2002
2 S TVTWAHETNN/SQSP

L28 FILE 'CAPLUS' ENTERED AT 14:09:47 ON 15 NOV 2002
2 S L27

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L9 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 3
 AN 1993:5163 CAPLUS
 DN 118:5163
 TI Analysis of Escherichia coli colonization factor antigen I linear B-cell epitopes, as determined by primate responses, following protein sequence verification
 AU Cassels, Frederick J.; Deal, Carolyn D.; **Reid, Robert H.**; Jarboe, Daniel L.; **Nauss, Jeffrey L.**; Carter, John M.; Boedeker, Edgar C.
 CS Dep. Gastroenterol., Walter Reed Army Inst. Res., Washington, DC, 20307, USA
 SO Infection and Immunity (1992), 60(6), 2174-81
 CODEN: INFIBR; ISSN: 0019-9567
 DT Journal
 LA English
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 3, 10
 AB Colonization factor antigen I (CFA/I)-bearing strains of enterotoxigenic E. coli (ETEC) are responsible for a significant percentage of ETEC diarrheal disease worldwide whether the disease presents as infant diarrhea with high mortality or as traveler's diarrhea. CFA/I pili (fimbriae) are virulence determinants that consist of repeating protein subunits (pilin), are found in several ETEC serogroups, and promote attachment to human intestinal mucosa. While CFA/I pili are highly immunogenic, the antigenic determinants of CFA/I have not been defined. The linear B-cell epitopes within the CFA/I mol. were identified as detd. by primate response to the immunizing protein. To do this, the authors (i) resolved the discrepancies in the literature on the complete amino acid sequence of CFA/I by N-terminal and internal protein sequencing of purified and selected proteolytic fragments of CFA/I, (ii) utilized this sequence to synthesize 140 overlapping octapeptides covalently attached to polyethylene pins which represented the entire CFA/I protein, (iii) immunized rhesus monkeys with multiple i.m. injections of purified CFA/I subunit in Freund's adjuvant, and (iv) tested serum from each monkey for its ability to recognize the octapeptides in a capture ELISA. Eight linear B-cell epitopes were identified; the region contg. an epitope at amino acids 1121 was strongly recognized by all 3 individual rhesus monkeys, while the amino acid stretches 22-29, 66-74, 93-101, and 124-136 each contained an epitope that was recognized by 2 of the 3 rhesus monkeys. The 3 other regions contg. epitopes were recognized by 1 of the 3 individuals. The monkey antiserum to **pilus subunits** recognized native intact **pili** by immunogold labeling of CFA/I pili present on whole H10407 cells. Therefore, immunization with **pilus subunits** induces antibody that clearly recognizes both synthetic linear epitopes and intact pili. The importance of these defined epitope-contg. regions as vaccine candidates is discussed.
 ST colonization factor I B cell epitope; sequence colonization factor antigen I Escherichia
 IT Vaccines
 (for enterotoxigenic Escherichia coli, colonization factor antigen I epitopes in relation to)
 IT Protein sequences
 (of colonization factor antigen I, of Escherichia coli)
 IT Lymphocyte
 (B-cell, Escherichia coli colonization factor antigen I epitopes for)
 IT Pilins
 RL: PRP (Properties)
 (CFA/I (colonization factor antigen I), B-cell epitopes and amino acid sequence of, of enterotoxigenic Escherichia coli)
 IT Molecular structure-biological activity relationship
 (antigenic, for colonization factor antigen I of Escherichia coli)

IT Escherichia coli
(enterotoxigenic, colonization factor antigen I amino acid sequence and
linear B-cell epitopes of)
IT 124833-86-9, Pilin CFA/I (plasmid J53 clone pTZCFAI)
RL: PRP (Properties)
(amino acid sequence of)

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L9 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
 AN 1993:154539 CAPLUS
 DN 118:154539
 TI Oral-intestinal vaccines against diseases caused by enteropathogenic organisms using antigens encapsulated within biodegradable-biocompatible microspheres
 IN **Reid, Robert H.**; Jarboe, Daniel; Cassels, Frederick J.; Boedeker, Edgar C.; Setterstrom, Jean A.
 PA United States Dept. of the Army, USA
 SO PCT Int. Appl., 118 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 12

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9219263	A1	19921112	WO 1991-US3328	19910513
	W: AU, CA, FI, JP, NL, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	AU 9183036	A1	19921221	AU 1991-83036	19910513
PRAI	US 1991-690485	A	19910424		
	WO 1991-US3328	A	19910513		

=> d 6 ab

L9 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
 AB An oral-intestinal vaccine against infections by enteropathogenic bacteria comprises DL-lactide-glycolide copolymer-encapsulated AF/R1 pilus of Escherichia coli RDEC-1 attachment, or similarly-encapsulated antigenic synthetic peptides contg. (FA/I (colonization factor antigen I) **pilus protein** T-cell or B-cell epitopes. Intraduodenal vaccination with the DL-lactide-glycolide copolymer-encapsulated AF/R1 pilus protected habits against diarrhea caused by E. coli RDEC-1.

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
 AN 1989:491322 CAPLUS
 DN 111:91322
 TI Nucleotide sequence of the gene encoding the major subunit of CS3 fimbriae of enterotoxigenic Escherichia coli
 AU Boylan, Maire; Smyth, Cyril J.; Scott, June R.
 CS Sch. Med., Emory Univ., Atlanta, GA, 30322, USA
 SO Infection and Immunity (1988), 56(12), 3297-300
 CODEN: INFIBR; ISSN: 0019-9567
 DT Journal
 LA English
 CC 3-2 (Biochemical Genetics)
 AB The complete nucleotide sequence of a 612-base-pair DNA fragment contg. the gene for the major fimbrial subunit of CS3 of **enterotoxigenic E. coli** is presented. A possible promoter region, a ribosome-binding site, and 2 potential signal peptidase cleavage sites are indicated. Unlike the best-studied fimbrial proteins, the predicted **CS3 sequence** has no Cys residues.
 ST Escherichia pilin **CS3** gene **sequence**
 IT Gene and Genetic element, microbial
 RL: BIOL (Biological study)
 (for pilin CS3 subunit, of Escherichia coli, nucleotide and encoded peptide sequences of)
 IT Protein **sequences**
 (of pilin **CS3** subunit and precursor, of Escherichia coli, complete)
 IT Escherichia coli
 (pilin CS3 subunit of, gene for, nucleotide and encoded peptide sequences of)
 IT Pilins
 RL: BIOL (Biological study)
 (CS3 (Escherichia coli surface 3) antigens, gene for subunit of, nucleotide and encoded peptide sequences of)
 IT Deoxyribonucleic acid **sequences**
 (antigen **CS3** (Escherichia coli surface 3)-specifying, subunit, of Escherichia coli, complete)
 IT 122319-49-7, Pilin (plasmid pCS001 clone pCS119 **CS3** fimbriae)
 122319-50-0, Pilin (plasmid pCS001 clone pCS119 CS3 fimbriae precursor)
 RL: PRP (Properties)
 (amino acid **sequence** of)
 IT 122319-15-7, Deoxyribonucleic acid (plasmid pCS001 clone pCS119 CS3 fimbriae pilin gene)
 RL: PRP (Properties); BIOL (Biological study)
 (nucleotide sequence of)

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L9 ANSWER 9 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1992:39981 BIOSIS
DN BR42:16131
TI AF-R1 **PILUS PROTEIN** REMAINS IMMUNOGENIC TO RABBIT
SPLEEN CELLS IMMUNIZED IN-VITRO AFTER MICROENCAPSULATION.
AU SAU K; **REID R H**; DAVIS D; BOEDEKER E C; NELLORE R; BHAGAT H R
CS WALTER REED ARMY INST. RES., WASHINGTON, D.C. 20307.
SO AAPS (AMERICAN ASSOCIATION OF PHARMACEUTICAL SCIENTISTS) SIXTH ANNUAL
MEETING AND EXPOSITION, WASHINGTON, D.C., USA, NOVEMBER 17-21, 1991. PHARM
RES (N Y). (1991) 8 (10 SUPPL), S164.
CODEN: PHREEB. ISSN: 0724-8741.
DT Conference
FS BR; OLD
LA English
CC General Biology - Symposia, Transactions and Proceedings of Conferences,
Congresses, Review Annuals 00520
Cytology and Cytochemistry - Animal 02506
Biochemical Studies - Proteins, Peptides and Amino Acids 10064
Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
Reticuloendothelial System *15008
Pharmacology - General *22002
Pharmacology - Immunological Processes and Allergy *22018
In Vitro Studies, Cellular and Subcellular 32600
Immunology and Immunochemistry - Immunopathology, Tissue Immunology
*34508
BC Leporidae 86040
IT Miscellaneous Descriptors
ABSTRACT

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L9 ANSWER 10 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1991:381461 BIOSIS
 DN BR41:53851
 TI AF-R1 **PILUS PROTEIN** REMAINS IMMUNOGENIC TO RABBIT
 PEYER'S PATCH CELLS IMMUNIZED IN-VITRO AFTER MICROENCAPSULATION.
 AU DAVIS D; **REID R H**; SAU K
 CS WALTER REED ARMY INST. RES., WASHINGTON, D.C. 20307.
 SO 91ST GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 1991,
 DALLAS, TEXAS, USA, MAY 5-9, 1991. ABSTR GEN MEET AM SOC MICROBIOL. (1991)
 91 (0), 132.
 CODEN: AGMME8.
 DT Conference
 FS BR; OLD
 LA English
 CC General Biology - Symposia, Transactions and Proceedings of Conferences,
 Congresses, Review Annuals 00520
 Biochemical Studies - Proteins, Peptides and Amino Acids 10064
 Metabolism - Proteins, Peptides and Amino Acids *13012
 Digestive System - Physiology and Biochemistry *14004
 Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies
 *15002
 Morphology and Cytology of Bacteria *30500
 Physiology and Biochemistry of Bacteria *31000
 In Vitro Studies, Cellular and Subcellular 32600
 Immunology and Immunochemistry - Bacterial, Viral and Fungal *34504
 Medical and Clinical Microbiology - Bacteriology *36002
 BC Bacteria - Unspecified 04000
 Leporidae 86040
 IT Miscellaneous Descriptors
 ABSTRACT IMMUNOGLOBULIN M RESPONSE BACTERIAL INFECTION

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1993:313052 BIOSIS
 DN PREV199345019577
 TI **Binding interactions** of peptides in a structural
homology model of the DR1 class II MHC.
 AU Nauss, Jeffrey L.; Reid, Robert H.; Sadegh-Nasseri, Scheherazade
 CS Dep. Gastroenterol., Walter Reed Army Inst. Res., Washington, DC 20307
 SO Journal of Immunology, (1993) Vol. 150, No. 8 PART 2, pp. 41A.
 Meeting Info.: Joint Meeting of the American Association of Immunologists
 and the Clinical Immunology Society Denver, Colorado, USA May 21-25, 1993
 ISSN: 0022-1767.
 DT Conference
 LA English
 CC General Biology - Symposia, Transactions and Proceedings of Conferences,
 Congresses, Review Annuals 00520
 Cytology and Cytochemistry - Human 02508
 Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Biophysics - Molecular Properties and Macromolecules *10506
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
 Reticuloendothelial System *15008
 Morphology and Cytology of Bacteria 30500
 Physiology and Biochemistry of Bacteria *31000
 Virology - Animal Host Viruses *33506
 Immunology and Immunochemistry - Bacterial, Viral and Fungal *34504
 Immunology and Immunochemistry - Immunopathology, Tissue Immunology
 *34508
 Medical and Clinical Microbiology - Bacteriology 36002
 Medical and Clinical Microbiology - Virology *36006
 BC Orthomyxoviridae 02615
 Enterobacteriaceae 06702
 Hominidae *86215
 IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
 and Circulation); Clinical Immunology (Human Medicine, Medical
 Sciences); Immune System (Chemical Coordination and Homeostasis);
 Microbiology; Physiology
 IT Miscellaneous Descriptors
 ABSTRACT; HLA; INFLUENZA VIRUS HEMAGGLUTININ PEPTIDE; MAJOR
 HISTOCOMPATIBILITY COMPLEX; PILUS PROTEIN
 ORGN Super Taxa
 Enterobacteriaceae: Eubacteria, Bacteria; Hominidae: Primates,
 Mammalia, Vertebrata, Chordata, Animalia; Orthomyxoviridae: Viruses
 ORGN Organism Name
 Escherichia coli (Enterobacteriaceae); Hominidae (Hominidae);
 Orthomyxoviridae (Orthomyxoviridae)
 ORGN Organism Superterms
 animals; bacteria; chordates; eubacteria; humans; mammals;
 microorganisms; primates; vertebrates; viruses

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